	Application No.	Applicant(s)
Notice of Allowability	10/689,238	YANG, DELIANG
	Examiner	Art Unit
	John S. Maples	1745
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this ap 5) or other appropriate communicatio RIGHTS. This application is subject	oplication. If not included n will be mailed in due course. <b>THIS</b>
1. This communication is responsive to		
2. ☑ The allowed claim(s) ie/are <u>1-4</u> .		
3. $\boxtimes$ The drawings filed on <u>20 October 2003</u> are accepted by the	he Examiner.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ve been received. ve been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS ( as "replacement sheets") mu	ist be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
ldentifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the draw	ings in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL	must be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Mail Da ∕08), 7. ☐ Examiner's Amend	
Paper No./Mail Date 4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	, 	ent of Reasons for Allowance

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1. The following is an examiner's statement of reasons for allowance: none of the prior art of record teaches the claimed fuel cell stack including a plurality of thin fuel cells where each of the thin cells includes a water transport plate defining water management channels and a plurality of thick fuel cells where each of the thick cells includes a combined water management and coolant water transport plate that defines cooling channels wherein at least one thin fuel cell is located adjacent each thick fuel cell and where the water management channels have a depth parallel to the longitudinal axis of the stack that is at least four times less than a depth of the cooling channels. The prior art of record does not disclose the plurality of the thick and thin cells in the above noted configuration nor does the art disclose the relationship between the size of the water management channels vs. the size of the cooling channels.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 571-272-1287. The examiner can normally be reached on Monday-Thursday from 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John S. Maples Primary Examiner Art Unit 1745

JSM/8-18-2004